

Lecture material summary

Purpose of this document:

Teaching material for lecturers in Architecture and Civil Engineering. Can be used as a whole or as separate sections

Prepared by an ISSF* Task Force

Members:

- Eduardo Carragueiro (Böllinghaus)
- Thiery Cremailh (Schmolz + Bickenbach)
- Bernard Heritier (ISSF)
- Clara Herrera (Deutsche Edelstahl Werke)
- Jun Ishikawa (ISSF)
- Marco Massazza (Cogne Acciai Speciali)
- Thomas Pauly (Euro-Inox)
- Luis Peiro (Acerinox)

* International Stainless Steel Forum, Avenue de Tervueren 270, B-1150 Brussels www.worldstainless.org

Reviewed by an Advisory Committee













Members:

- Prof. Dinar Camotim (Instituto Superior Técnico , Lisboa, Portugal)
- Prof. Katherine Cashell (Brunel University, London, UK)
- Prof. Christelle Gress (Ecole Nationale d'Architecture, Strasbourg, France)
- Prof. Laura Daglio (Politecnico Milano, Italy)
- Prof. Helmut Hachul (Fachhochschule Dortmund, Germany)
- Prof. Satish Kumar (Indian Institute of Technology, Chennai, India)
- Prof. Satoshi Nara (University of Osaka, Japan)
- Prof. Esther Real (Universitat Politècnica de Catalunya, Barcelona, Spain)
- Prof. Barbara Rossi (KU Leuven, Belgium)
- Prof Antonio Santa-Rita (Universi Lusofona ... Lisboa, Portugal)
- Prof. Pedro Vellasco (Universidade do Estado do Rio de Janeiro, Brazil)

Contents

1. Stainless Steel in Art
2. Applications
1- Facades 2 - Green walls 3 – Roofs 4 - Interior Decoration 5 – Plumbing
6 - Escalators and lifts 7 – Airports 8 - Urban furniture 9 – Restoration 10
– Arenas 11 - Swimming pools 12 - Water distribution
3. Why stainless steel
4. What are stainless steels?
5. Corrosion resistance
6. Mechanical properties
7. Structural Applications
A – Rebar B - Flat Products
8. Stainless Steel Surfaces and finishes
9. Joining & Fabrication of Stainless Steels
10. Forms and availability
11. Sustainability

Stainless Steel Development Associations Worldwide: where you can find free information & downloads

SSDA	Website	Country/Region	Social media
ISSF	worldstainless.org	Global	 
Abinox	abinox.org.br	Brazil	  
ASSDA	assda.asn.au	Australia	  
BSSA	bssa.org.uk	United Kingdom	  
Cedinox	cedinox.es	Spain	
Centro Inox	centroinox.it	Italy	
IMINOX	iminox.org.mx	Mexico	
ISER	edelstahl-rostfrei.de	Germany	
ISSDA	stainlessindia.org	India	
JSSA	jssa.gr.jp	Japan	
KOSA	kosa.or.kr	Korea	

Stainless Steel Development Associations Worldwide: where you can find free information & downloads

SSDA	Website	Country/Region	Social media
NZSSDA	nzssda.org.nz	New Zealand	
PASDER	turkpasder.com	Turkey	
SASSDA	sassda.co.za	South Africa	  
SSINA	ssina.com	North America	
CSSC	cssc.org.cn	China	
SSN	stalenierdzewne.pl	Poland	
Swiss Inox	swissinox.ch	Switzerland	
TSSDA	tssda.org	Thailand	
USSA	ussa.su	Russia	
ICDA	icdacr.com	Global	
IMOA	imoa.info	Global	 
Nickel Institute	nickelinstitute.org	Global	 

Stainless Steel Development Associations Worldwide: where you can find free information & downloads

SSDA	Website	Country/Region	Social media
Construiracier	construiracier.fr/tout-sur-lacier/les-aciers-inoxydables/	France	
Team Stainless	Stainlessconstruction.com	Global	
Stainless Steel Training Portal	issftraining.org	Global	

Test your knowledge of stainless steel

A quiz in which you can test your knowledge of stainless steel is now available:

<https://www.surveymonkey.com/r/3BVK2X6>