Southern African Institute of Steel Construction

Impact of steel prices on the Steel Construction Industry October 2010

> Dr Hennie de Clercq Executive Director Kobus de Beer Industry Development Executive

#### Steel an important material

- "If it's not made of steel, it's made using steel"
- . Enables industrial development
- Inexpensive (a kg of steel costs same as kg of Coke)
- Steel is green: sustained positive social, economic & environmental impact

# Perspective on steel consumption

	Country	kg / person	ton / \$million GDP	
	SA	108	19	
	China	437	119	
	India	50	48	
	Brazil	129	16	
	Russia	228	26	
	Argentina	109	14	
	Thailand	192	49	
/	Egypt	111	47	
	Iran	228	52	
	Japan	487	12	
1	Germany	429	11	
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#### Steel in construction

- . 40% of all steel is used in construction
- . About 2,4 m tons plate & profile pa in SA
- . 80 000 people employed
- Key enabling industry: have to have structure in place before machines can be placed etc - without structural steel industry, can't have other industries

# The things we produce from steel

Structures for: Buildings

- Bridges
- Roads and <u>railways</u>
- Community buildings Stadia Shopping centres

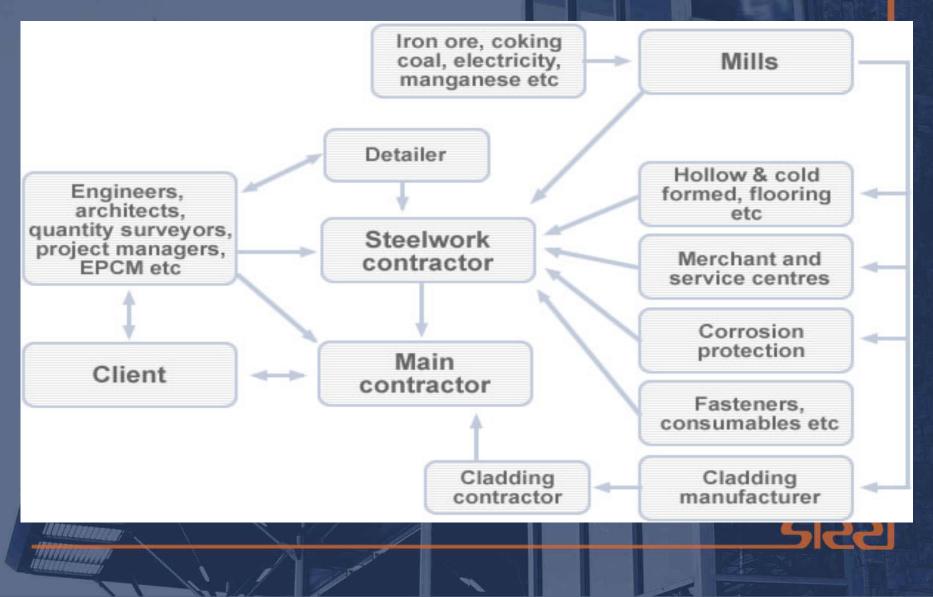
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#### Also ...

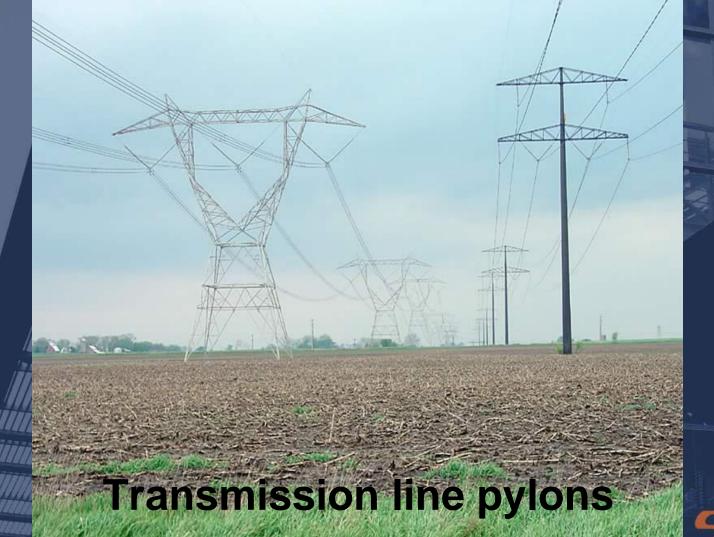
- Cladding for roofs and wallsBolts
- Secondary steel products such as pipes
- . Fencing and security
- Windows, door frames and other products for buildings or infrastructure

### Steel in construction



#### Portnet ship-to-shore container crane State SAISC awards winner 2006

#### Burj Al Arab, Dubai SAISC awards winner 1998





Soccer City Johannesburg under construction Secondary SAISC overall award winner 2009

#### Nelson Mandela Bridge SAISC award 2003

#### SAISC Activities

- . Technical: Handbooks, SABS standards
- . Technical and practical advice
- . Education and training
- Industry improvement
- Interact with decision makers in government and private sector
- Promote the use of steel (market development)
- . Defend home market



#### SAISC export promotion

. Promote image of SA industry in target markets through export cluster, ISF Pursue projects in other countries – mobilise SA companies Surveillance of world and regional trends and opportunities Interact and co-operate with government

#### Influence of price of steel

Steel price comprises 40% of the value of fabricated structural steel as a product
 Cost of primary steel price typically constitutes 2% to 8% of final project value
 Domestic competition – little practical effect on structures

International competitiveness – major effect Tube & pipe, bolts, roof cladding etc price sensitive due to imports and substitute products from other materials

# Examples of the influence of steel prices on product costs

Automotive: 400 kg of AMSA steel per motorcar. An increase of R1 000/ton adds R400.00 per car

R1,8bn cement plant – steel 5000t, value R50m = 2,7% of project. Increase of 20% in steel price adds + 0,6% to the project. Thus not the determinant for project investments.

Power pylons for ESKOM : Steel at R6500/ton (\$800) (directly ex mill) comprises 40% of price. To match imports from India steel price must be R3500/ton. Thus other cost factors also important.

#### Value added imports articles of iron & steel

PRODUCT	2007	2008	2009	2010 (6m)	% of 2009 total
Wire & products	133 762 t	135 640 t	104 857 t	65 995 t	28%
Tube & pipe	129 032 t	132 402 t	118 077 t	63 992 t	32%
Fasteners	59 609 t	58453 t	42 693 t	24 389 t	11%
Structures	26 677 t	53 224 t	23 553 t	11 193 t	7 %
Others	109 561 t	120 856 t	80 202 t	51 150 t	22 %
Total tons	458 641 t	500 575 t	369 382 t	261 719 t	100 %
Total Value (SAR)	R 7,259bn	R10,773bn	R 7,432bn	R 3,640bn	

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## Value added exports articles of iron or steel

PRODUCT	2007	2008	2009	2010 (6m)	% of 2009 total
Wire & products	232 073 t	215 225 t	171 415 t	87 554 t	34%
Tube & pipe	177 990 t	174 330 t	106 733 t	57 751 t	21%
Fasteners	21 469 t	24 564 t	11 699 t	6 800t	3%
Structures	179 956 t	217 465 t	144 285 t	75 204 t	28%
Others	82 646 t	71 844 t	70 821 t	35 694 t	14%
Total tons	694 134 t	703 428 t	<b>504 953 t</b>	263 003 t	100 %
Total (SAR)	R 7,75 bn	R11,53 bn	R 8,2 bn	R 4,07 bn	

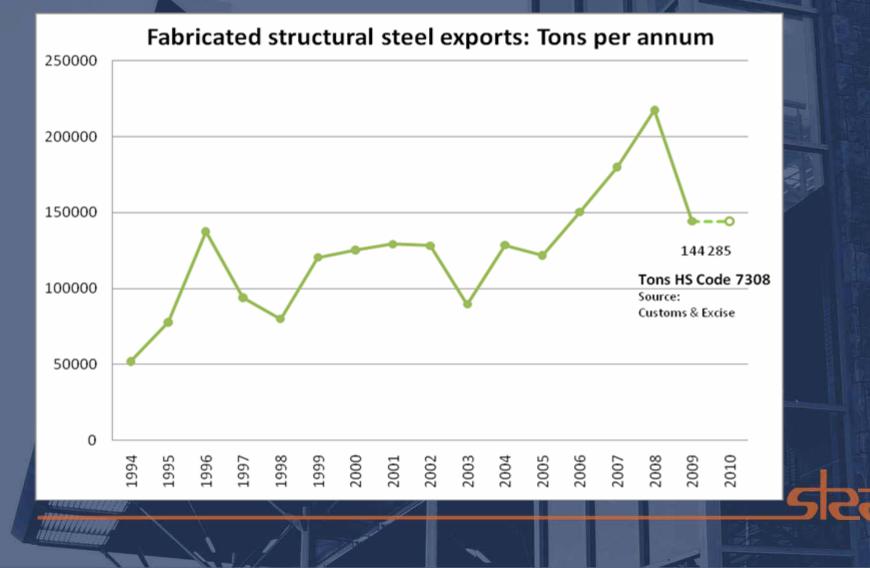
#### International Competitiveness Value added exports

- 500 000 t exported (R8,2 bn R16 400 / ton)
- . 370 000 t imported (R7,4 bn R20 000 / ton)
- Structural: 6 times more export than import
- Structural exports 30% of all value added products:
  - 50% exported into Africa (40 countries)
  - Export to 115 countries world wide
  - Average product selling price R21 000 / ton
- AMSA's export incentives valuable

Provides target market steel price parity

Productivity / quality / technology / delivery / service / professionalism as important

### Structural Steel Exports Tons per annum



# Perspective on 12000 tons per month exported

15 tons per truckload Thus 25 truckloads shipped or driven across borders every day of every month

#### Export / import strategy

. Most trading partners: Subsidise and assist exports Tax and deter imports . SA: Too little incentive to export Too little import protection - took 1 year to get urgent application Gazetted SA grants permits to import complete projects - eg cement plants

#### State of local industry

- Did well until 2008, invested heavily in extra capacity
- Pursues CSDP with Eskom and others
- Government spending stopped, except power stations
- Mining industry in limbo because of uncertainty, while South America blossoms
  Strong and volatile Rand deters exports
  Jobs lost, companies going bust, closing facilities

## Steel Construction Industry New Opportunities

- Power linesHarbour cranes
- Sasol
- . PetroSA
- Renewable energy
- Mining Exports / Import substitution

#### Conclusions

- Steel price is one of the determinants of a successful steel construction industry, but many other factors have a larger influence
- Domestic competition is on a level playing field for structural steel but certain products experience competition from imports and other materials
- Export is a prime growth opportunity
- Steel prices have a major influence on exports
  - also price fluctuations and R : \$ exchange rates
- International competitors enjoy assistance and protection
- SA industry has little assistance or protection
- SA companies meet international standards

#### Recommendations

- Create a favourable environment for investments in RSA projects – industry will follow
- . The mining industry needs to be supported
- Seek ways to support exports by the downstream industry, also through steel pricing
- Protect the industry against imported products (duties) and projects (legislation)

Strengthen interdepartmental co-operation Establish fast track decision making Involve industry associations

### THANK YOU

#### Southern African Institute of Steel Construction "We speak fluent steel"