



	PRODUCT STA	GE (A1,		, A	3):			
		MILIEUPROFIEL constructiestaal, d	ata kwaliteit j	goe d				
	Constant and the second and the seco	Thema	ee nheid	Constructie- staal voor zware toe passingen	Constructie- staal voor middelzware toepassingen	Constructie- staal voor lichte toe passingen	Constructie- staal voor binnen- wanden	Constructie- staal voor dak-en gevel- bekleding
STEEL AT WORK	<complex-block></complex-block>	Wine toxcleit Humane toxcleit Abioteche uitpuiting Ecitoxiche it self ment dreat waten Breating Breating the self self self self self self self sel	ecy	2,9E+01 2,8E+00 5,7E+00 9,2E+00 1,7E-01 3,0E+00 4,8E+02 5,1E-01 1,1E-04 4,8E+02 5,1E-01 1,1E-04 4,8E+02 5,1E-01 1,1E-04 4,8E+02 5,1E-01 1,1E-04 4,9F/00 5,1E-01 1,1E-04 5,1E-01 5,1E-01 1,1E-04 5,1E-01 5,1E-01 5,1E-04 5,1E-0	4.4E+01 5.5E+00 8.4E+00 1.4E+01 2.4E+01 2.4E+01 5.2E+00 6.5E-01 9.4E+02 9.0E-01 1.4E-04	5,1E+01 5,6E+00 1,0E+01 5,5E+00 7,8E+01 5,5E+00 7,8E+02 2,8E+01 2,8E+02 2,8E+02 2,8E+02 2,8E+02 2,8E+02 2,8E+02 5,8E+02 5,8E+02 5,8E+02 5,8E+02 5,8E+02 5,8E+02 5,8E+02 5,8E+02 5,8E+02 5,8E+02 5,8E+02 5,8E+02 7,8E+0	0.5E+01 0.9E+00 1.4E+01 2.7E+01 0.0E+01 2.7E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+00 1.4E+01 1.4E+000 1.4E+000 1.4E+000 1.4E+000 1.4E+000 1.4E+000 1.4E+0	3.8E+01 4.4E+00 7.5E+00 1.2E+01 2.1E+01 2.4E+00 5.6E+02 7.4E+02 7.4E+02 7.4E+02 1.5E+04





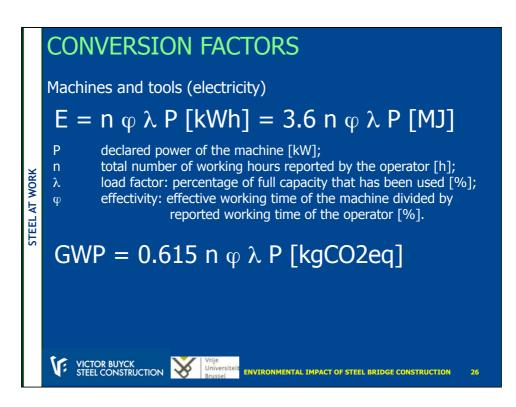




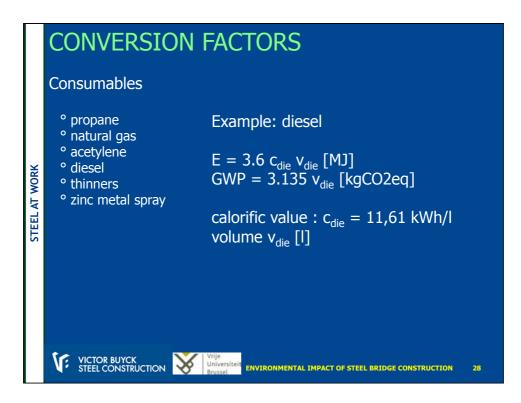




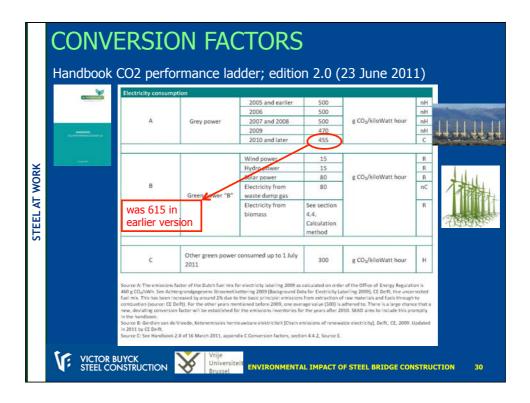




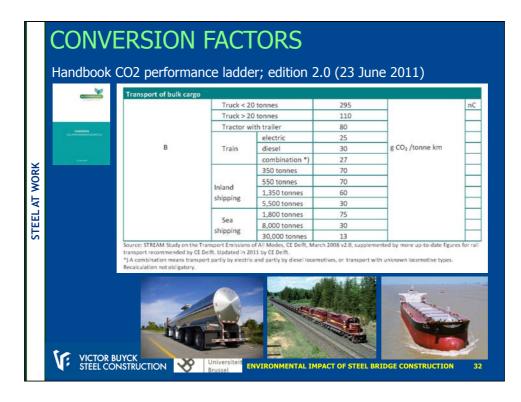
Machines and tools (electricity) $E = n \phi \lambda P [kWh] = 3.6 n \phi \lambda P [MJ]$						
		Load factor	Effectivity σ			
	Cranes (workshop)	50%	60%			
	Compressor (workshop)	30%	100%			
	Ventilation (workshop)	100%	100%			
	Plate oxy-cutting (workshop)	40%	100%			
	Drilling, punching, sawing (workshop)	60%	70%			

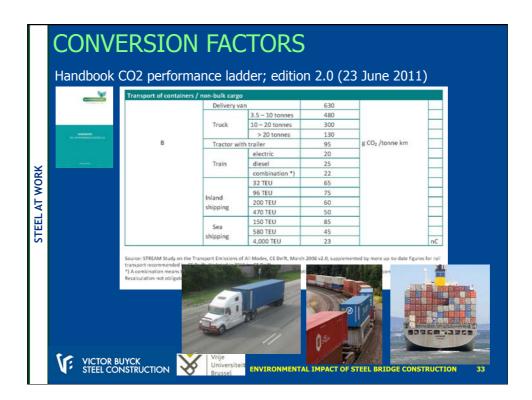


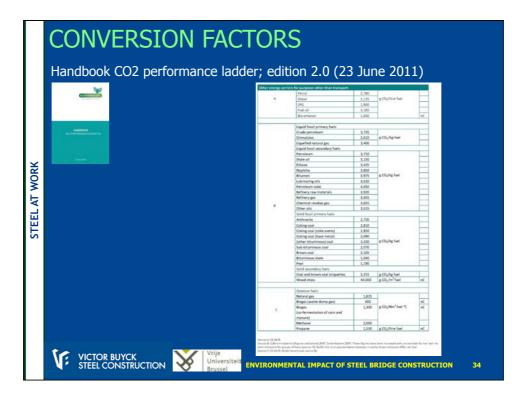


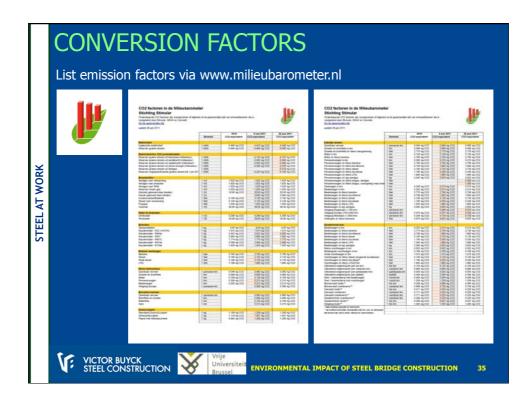


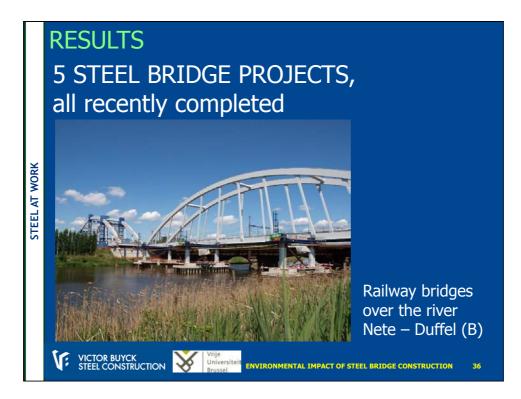


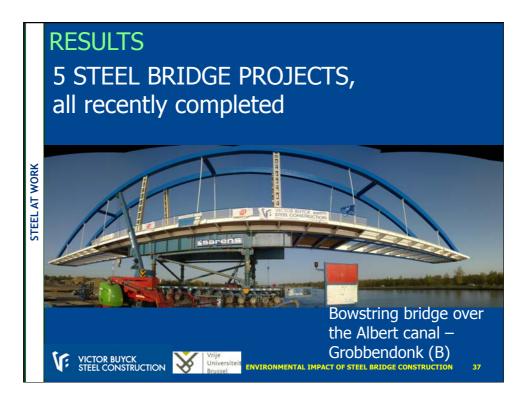


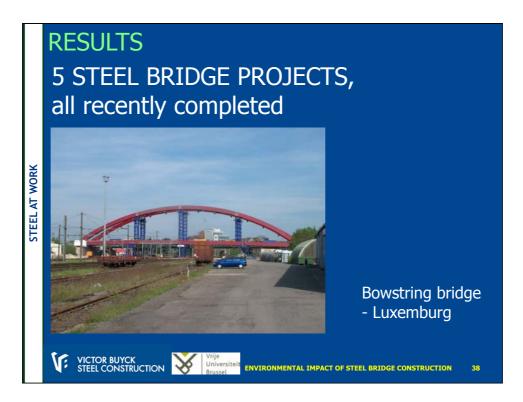




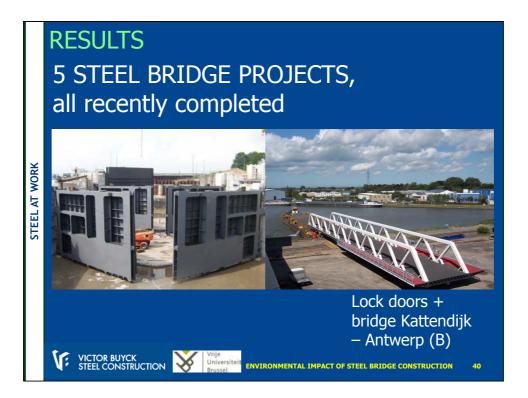












	Bridge Grobbendonk	Bridge Duffel	Bridge Luxemburg	Bridge Nantes	Kattendijk lock Antwerp
Steel consumption	573 t	2,280 t	1,954 t	2,527 t	(bridge) 254 t (doors) 417 t
Dimensions	L = 109 m B = 18 m H = 15.5 m	L = 110 m B = 13 m H = 20 m	L = 122 m B = 18.5 m H = 20.5 m	L = 210.5 m B = 27.4 m H = 57 m (pylon)	(bridge) L = 69 m B = 13 m H = 5.4 m
Description	Bowstring; Fully welded; Concrete deck on steel cross girders	Bowstring; Fully welded; Orthotropic deck	Bowstring; Bolted cross girders; Concrete deck	Cable stayed; Fully welded; Orthotropic deck	(bridge) Truss; Fully welded (gates) Fully welded
Fabrication hours	25.3 h/t	22.0 h/t	10.4 h/t	23.5 h/t	35.7 h/t
Corrosion protection system	3 layers (240 μm)	Zinc spray + 2 layers (150 µm to 240 µm)	Zinc spray + 2 layers (140 µm) or 3 layers (arch) (200 µm)	3 layers (230 μm); interior of pylon : 1 layer (40 μm)	(bridge) 4 layers (340 μm) (doors) 2 layers (500 μm)
Distance workshop to site	100 km	100 km	300 km	1,200 km (over sea)	100 km
Transport to site	Barge (over canals)	Truck	Truck	Barge (over sea)	Ship (doors) and barge (bridge)
Erection method	Float in	Launching	In situ	Float in: direct placing	Fully completed i situ
Erection hours	6.2 h/t	9.9 h/t	6.2 h/t	5.4 h/t	2.4 h/t

