





















FABRICATION	 environmental economic social
A I S C F a b r i c a t o r S u r v e v	 Collected Information Steel received and fabricated Scrap generated Water usage Electrical usage Waste disposal Fuel usage (natural gas, propane, diesel) Welding/cutting supplies Chemicals (paint, lubricants, cleaning agents) Criteria Global warming potential Acidification potential Eutrophication potential Smog potential Non-renewable energy primary demand





LIFE-CYCLE ANALYSIS (LCA)	
LCA Carbon Footprint	Numbers for Steel
BEES/NIST	2.4 tons CO ₂ /ton
AISI average	1.4 t/t
World Steel	0.937 t/t
ATHENA	0.936 t/t
Five Winds	0.895 t/t
BCSA	0.762 t/t
AISC	0.73 t/t
SMA	0.62 t/t
We need better numbers! Estimates are <i>not</i> exact	





























