

Examples Aspect – Impact – Life Cycle for Box manufacturing

Life Cycle Stage	Process / Activity	Environmental Aspect	Environmental Impact	Category (Climate / Pollution / Resource / Biodiversity / Ecosystem)	Apply Company own criteria for Significant Aspect	Controls	Improvement Actions
Raw Material Acquisition	Timber harvesting for paper pulp	Deforestation and raw material extraction	Loss of biodiversity, ecosystem disruption, resource depletion	Resource / Biodiversity / Ecosystem		FSC-certified suppliers	Increase recycled paper content
Raw Material Acquisition	Pulp production (paper mills)	High water and chemical usage	Water pollution and resource depletion	Pollution / Resource		Supplier environmental audits	Source from eco-friendly pulp mills
Design & Production	Corrugation and box manufacturing	Energy consumption (electricity, steam)	Carbon emissions contributing to climate change	Climate Change		Energy-efficient machines	Install renewable energy sources
Design & Production	Use of inks, adhesives	VOC emissions and chemical releases	Air pollution and worker/environment exposure	Pollution		Controlled chemical usage	Switch to water-based inks and adhesives
Transportation & Delivery	Distribution via trucks (3rd-party logistics)	Fuel consumption and CO₂ emissions	Climate change and air pollution	Climate Change / Pollution		Logistics planning	Optimize routes, use electric/hybrid transport

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Use Phase	Use of packaging by customers	Over-packaging / single-use application	Increased waste generation	Resource / Pollution		Lightweight design initiatives	Design minimal and reusable packaging
Final Disposal	Post-consumer cardboard waste (landfill/incineration)	Waste accumulation and methane emissions	Land pollution and climate impact	Pollution / Climate		Waste management awareness	Promote circular economy, increase recycling rates