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ENVIRONMENTAL IMPACT REPORT  
PROJECT - OFFICE AMSTERDAM - NL  
PRODUCT - REFURNITURE CHAIR

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**ENVIRONMENTAL IMPACT REPORT**  
PROJECT - ADAM SMITH BUILDING, AMSTERDAM - NL  
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# ENVIRONMENTAL IMPACT REPORT

## PROJECT - ADAM SMITH BUILDING, AMSTERDAM - NL

### PRODUCT - REFURNITURE CHAIR

This report compares the environmental impact of producing a new chair with that of reusing it. The calculations are based on the ISO 14025 and 15804+A2 standards.

#### Existing chair

Weight	6,91 kg
A1-A3 (production)	35,48 kg CO <sub>2</sub> -eq.
GWP* total	31,77 kg CO <sub>2</sub> -eq.

#### Refurbished chair

Weight	7 kg
Weight refurbished parts added	0,63 kg
A1-A3 (production)	3,46 kg CO <sub>2</sub> -eq.
GWP* total	5,37 kg CO <sub>2</sub> -eq.

Figures	in %	reduction
GWP* reduction (A1-A3) compared to existing chair	90,25 %	32,02 kg CO <sub>2</sub> -eq.
Re-used material	94,1 %	6,50 kg

\*GWP (Global Warming Potential) is used to express and compare the climate impact of greenhouse gases in terms of kg CO<sub>2</sub>-equivalent. It reflects both the strength of a gas in trapping heat and how long it stays in the atmosphere. The standard time frame is 100 years, with carbon dioxide set as the reference gas with a GWP of 1. The higher a gas's GWP, the more it contributes to global warming during its lifetime (source: ec.europa.eu).



Existing chair



Refurbished chair

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