Collection of aluminium building products at their end-of-life

This case study #2 is the second of a series of case studies whose overall objective is to investigate the collection rate of aluminium building products at their end-of-life in Europe.

The building object of this case study is an office building located in the Netherlands. Province Gelderland, the owner of the building, opted for a sustainable way of demolition: circular mining.

To determine the collection rate of aluminium building products, a pre-demolition inventory was carried out by SGS Search.

Most of the aluminium windows where directly reused in circular designs which resulted in a direct reuse of more than 80% of the total aluminium content. Some profiles where refurbished and all other aluminium collected for recycling. Only a small amount of aluminium embedded in small applications (e.g. exit signs) is assumed to be lost, resulting in a collection rate of 99,3%.

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**CASE STUDY #2**

**Location:** NL  
**Year:** 2022  
**Aluminium content:** 7 tonnes  
**Collection rate:** 99,3%

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**Collection of Aluminium**

1. **Dismantling**
   - The office building contained 7 tonnes of aluminium in total, mostly consisting of windows and other extruded profiles.

2. **Collection**
   - During the dismantling of the building, 99,3% of the aluminium products have been collected for reuse refurbishment or recycling.

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**In Short**

With a collection rate of 99,3%, this case study #2 confirms the high collection rates for aluminium building products at their end-of-life, as concluded in the study completed by TU Delft in 2004.

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